

WHAT IS CLAIMED IS:

1. A cathode ray tube (CRT) separation apparatus for separating a CRT having a faceplate and a funnel, the CRT separation apparatus comprising:

- a high-frequency power source;
- a transformer having a primary side and a secondary side;
- a first conductor electrically coupling the high-frequency power source to the primary side of the transformer;
- a separation cable electrically coupled to the secondary side of the transformer;
- a support guide for supporting the separation cable at a fixed position;
- a movable guide for wrapping the separation cable around the CRT; and
- a tension guide for applying tension to the separation cable.

2. The CRT separation apparatus of claim 1, wherein the transformer has an iron core, the first conductor being wound as a primary coil on the iron core, the separation cable being wound as a secondary coil on the iron core.

3. The CRT separation apparatus of claim 2, wherein the separation cable has two ends, further comprising a coupling member for coupling the two ends of the separation cable together to form an electrically closed circuit.

4. The CRT separation apparatus of claim 1, wherein the separation cable has two ends, further comprising:

- a second conductor electrically coupled to the secondary side of the transformer; and

a coupling member electrically coupling the two ends of the separation cable to the second conductor.

5. The CRT separation apparatus of claim 4, wherein the transformer has an iron core, the first conductor being wound as a primary coil on the iron core, the second conductor being wound as a secondary coil on the iron core.

6. The CRT separation apparatus of claim 1, wherein the support guide, the movable guide, and the tension guide comprise respective grooved rollers.

7. The CRT separation apparatus of claim 1, wherein the movable guide wraps the separation cable substantially completely around the CRT.

8. The CRT separation apparatus of claim 1, wherein the movable guide comprises a pair of rollers, each roller wrapping the separation cable substantially halfway around the CRT.

9. The CRT separation apparatus of claim 1, further comprising an air cylinder for actuating the tension guide.

10. The CRT separation apparatus of claim 1, wherein the separation cable comprises a plurality of main strands twisted together, each main strand comprising a plurality of stainless-steel wires twisted together.